

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P477898

Luminaire Tested: **IFLD-S-SA6A-827-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477898  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

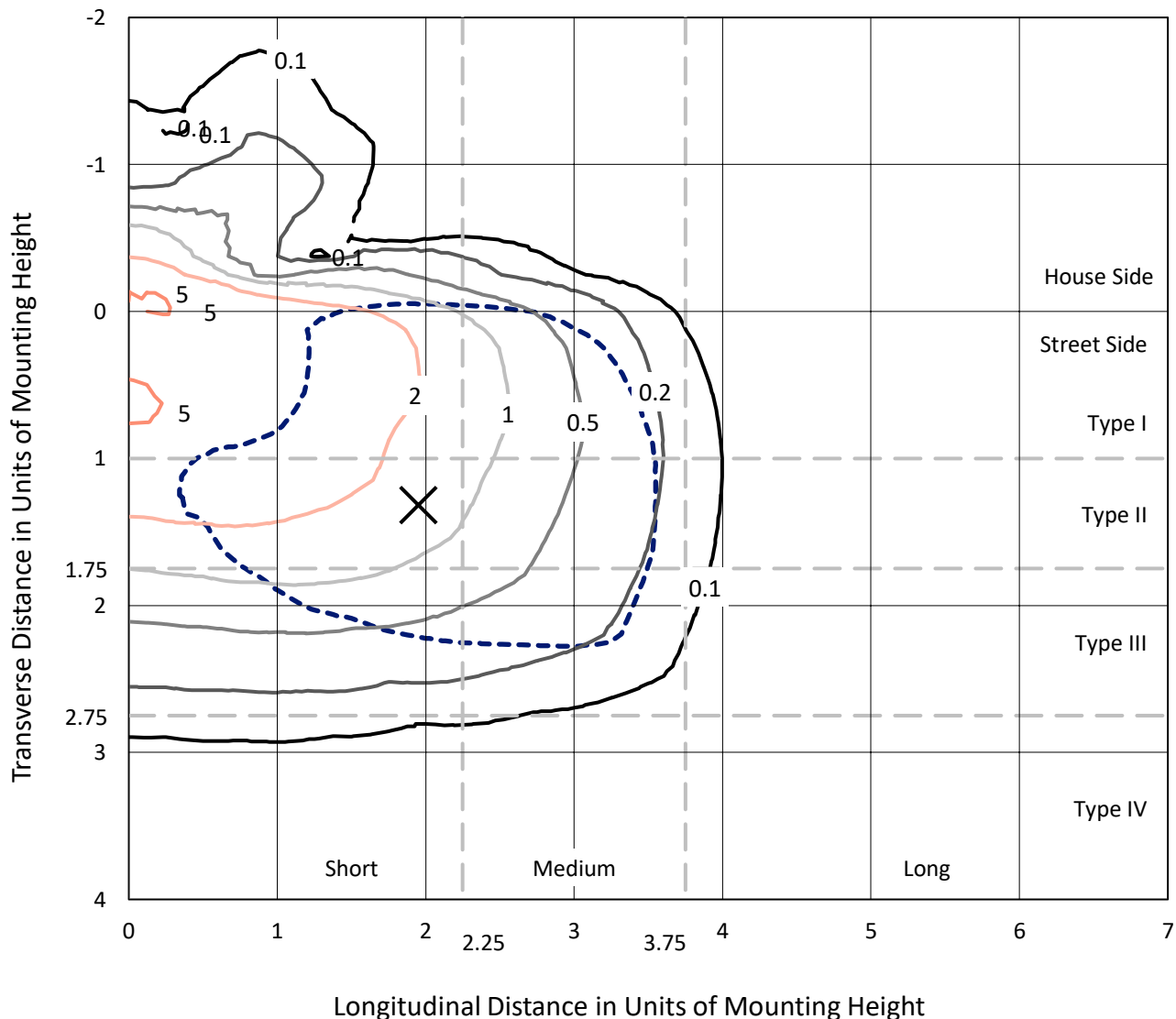
Lumens per Lamp: N/A  
Luminaire Lumens: 19489.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

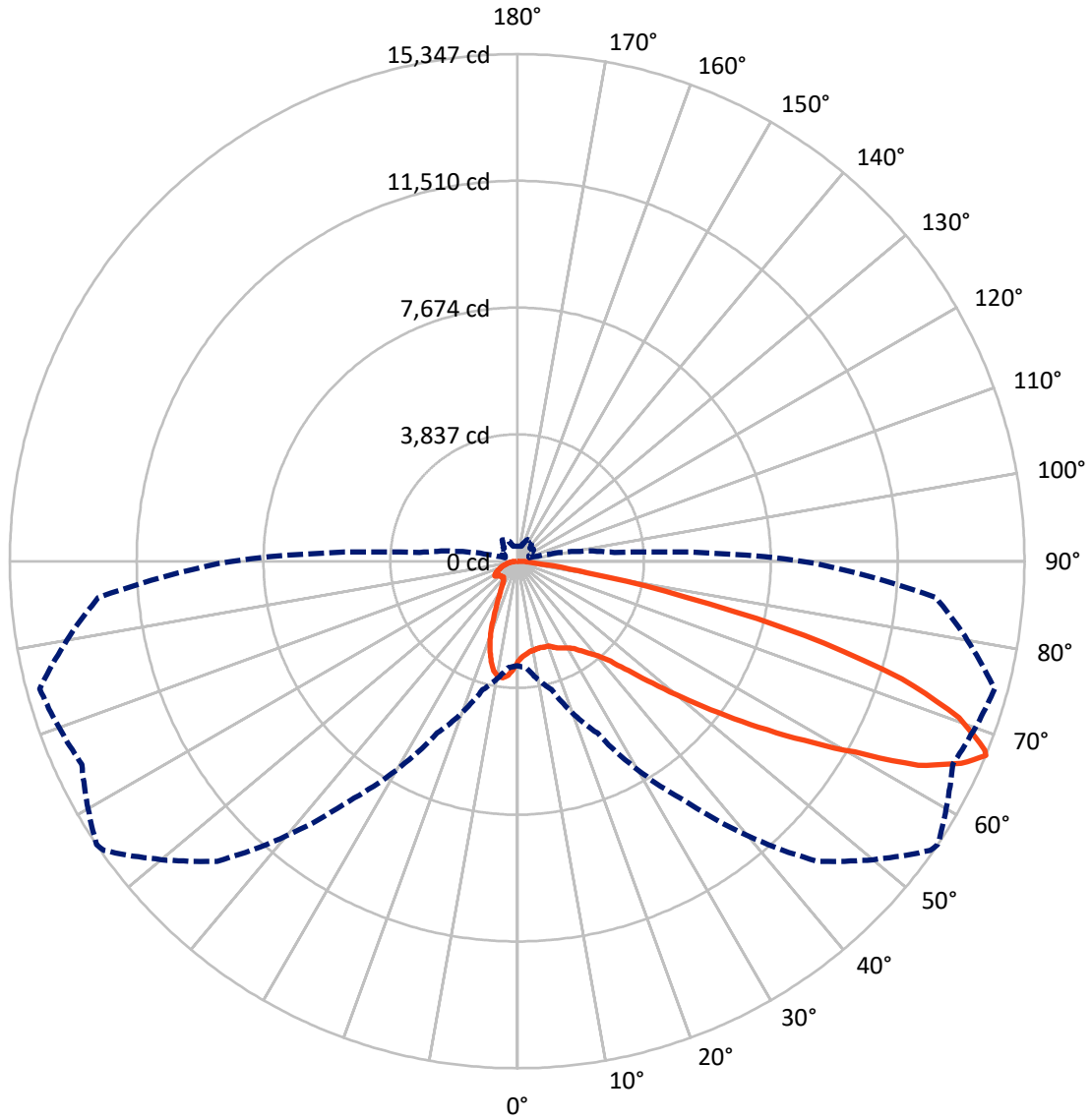
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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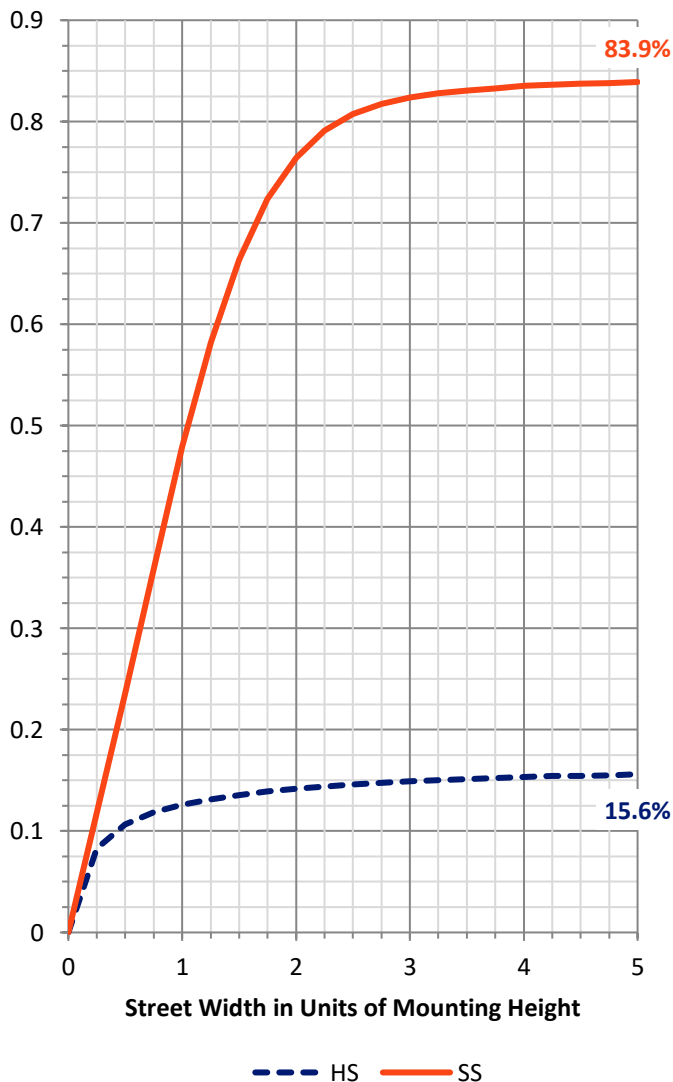
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3085.3	0.0	3085.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	16403.7	0.0	16403.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	19489.1	0.0	19489.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	1.5
10°-20°	797.0	4.1
20°-30°	1249.9	6.4
30°-40°	1784.3	9.2
40°-50°	2693.0	13.8
50°-60°	4286.8	22.0
60°-70°	5480.3	28.1
70°-80°	2672.0	13.7
80°-90°	233.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	19489.1	100.0
0°-180°	19489.1	100.0

**Coefficient of Utilization**

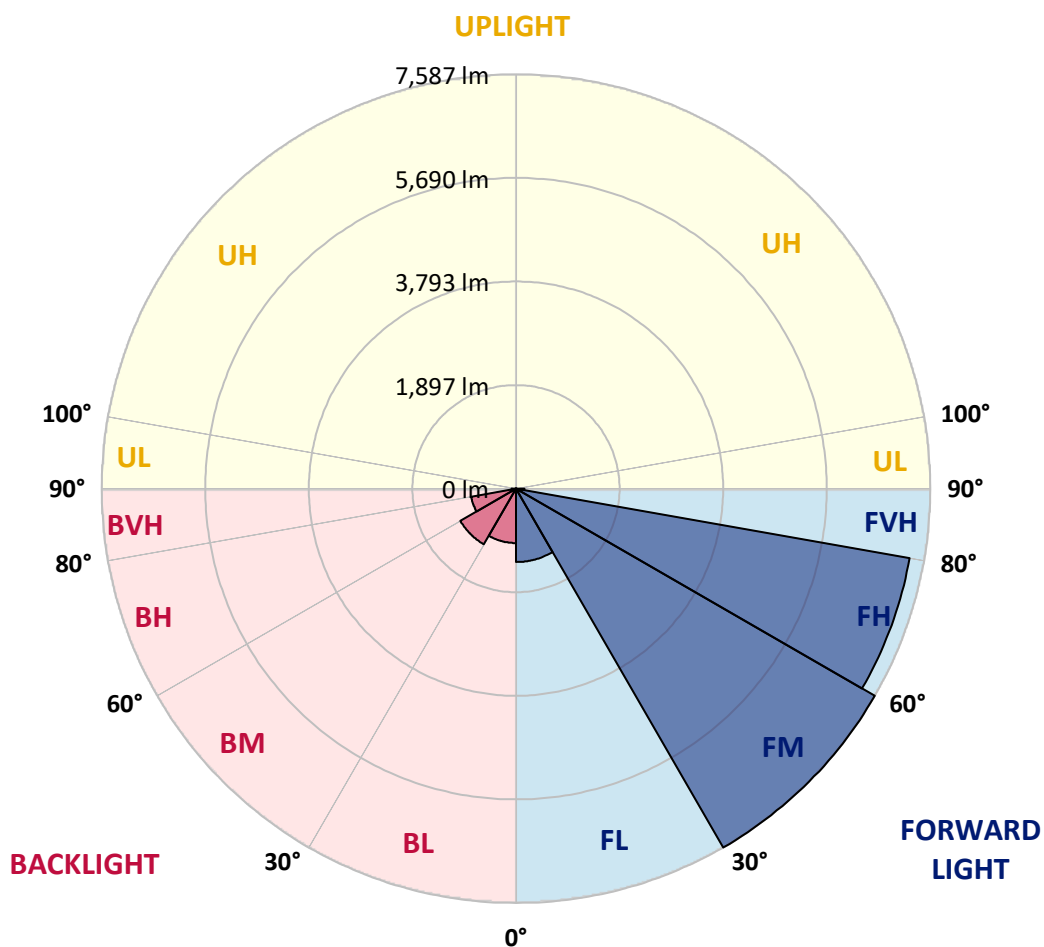


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.0	6.9			
FM (30°-60°)	7586.9	38.9			
FH (60°-80°)	7318.6	37.6			G3/7500
FVH (80°-90°)	155.2	0.8			G2/225
BL (0°-30°)	996.0	5.1	B2/1000		
BM (30°-60°)	1177.1	6.0	B2/2500		
BH (60°-80°)	833.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	78.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
2.5°	2785.6	2774.2	2787.9	2774.2	2835.9	2872.5	2883.9	2899.9	2957.0	3011.9
5°	2669.1	2618.8	2673.7	2692.0	2696.5	2758.2	2822.2	2833.6	2863.3	2952.5
7.5°	2474.9	2532.0	2511.4	2566.3	2623.4	2685.1	2790.2	2760.5	2870.2	2954.8
10°	2433.7	2438.3	2461.2	2481.7	2532.0	2612.0	2758.2	2739.9	2851.9	3032.4
12.5°	2474.9	2474.9	2468.0	2452.0	2509.1	2586.8	2703.4	2712.5	2888.5	3055.3
15°	2618.8	2646.3	2573.1	2584.6	2561.7	2586.8	2689.7	2710.2	2902.2	3073.6
17.5°	2970.7	2961.6	2874.8	2753.7	2653.1	2637.1	2708.0	2730.8	2888.5	3126.1
20°	3313.5	3295.2	3144.4	3018.7	2819.9	2726.2	2737.7	2739.9	2911.3	3160.4
22.5°	3695.2	3743.1	3578.6	3322.7	3075.9	2842.8	2797.1	2833.6	2963.9	3178.7
25°	4293.9	4191.0	4049.4	3713.4	3315.8	3023.3	2895.3	2913.6	3014.2	3224.4
27.5°	4725.8	4684.6	4463.0	4191.0	3651.7	3165.0	2947.9	2982.2	3105.6	3222.1
30°	5141.7	5141.7	5006.9	4600.1	4005.9	3402.6	3059.9	3043.9	3062.2	3217.5
32.5°	5628.4	5562.2	5367.9	5098.3	4451.6	3619.7	3149.0	3153.6	3153.6	3302.1
35°	5884.4	5991.8	5861.5	5422.8	4792.0	3980.8	3363.8	3329.5	3304.4	3395.8
37.5°	6259.1	6323.1	6186.0	5927.8	5214.8	4273.3	3553.5	3526.0	3379.8	3468.9
40°	6485.4	6473.9	6469.4	6350.5	5774.7	4618.4	3832.3	3761.4	3564.9	3727.1
42.5°	6613.3	6590.5	6871.6	6798.4	6302.6	5125.7	4181.9	4143.1	3926.0	4186.5
45°	6757.3	6926.4	7157.2	7362.9	6917.3	5838.7	4773.8	4718.9	4524.7	4856.0
47.5°	6883.0	7090.9	7385.7	7605.1	7472.6	6613.3	5505.0	5518.7	5390.8	5731.3
50°	7093.2	7113.8	7513.7	7957.0	8059.9	7328.6	6487.7	6464.8	6407.7	6885.3
52.5°	7029.2	7090.9	7596.0	8162.7	8331.8	8085.0	7543.4	7612.0	7536.6	8137.6
55°	5987.2	6172.3	7545.7	8379.8	8976.2	8939.7	8900.8	8855.1	8850.5	9545.2
57.5°	5514.2	5665.0	6647.6	8619.7	9666.4	9936.0	10187.4	10237.7	10235.4	11074.0
60°	5203.4	5358.8	6284.3	8489.5	10253.6	11240.9	11723.0	11729.9	11716.2	12707.9
62.5°	4595.5	4746.3	5655.8	7776.5	10415.9	12445.1	13519.2	13608.3	12979.9	14115.6
65°	3864.3	3987.7	4789.8	6686.5	9984.0	13210.7	14869.7	14764.6	14044.8	14920.0
67°	3160.4	3242.7	4024.2	5740.4	8855.1	12842.8	15260.5	15347.3	14536.1	14954.3
67.5°	2959.3	3034.7	3772.8	5418.2	8425.5	12564.0	15274.2	15260.5	14545.2	14961.1
70°	2054.4	2086.4	2570.8	3727.1	6206.6	10614.7	14159.0	14191.0	13935.1	14149.9
72.5°	1362.0	1410.0	1718.5	2349.2	3658.6	7723.9	11835.0	12177.8	12015.5	11601.9
75°	877.5	904.9	1124.3	1398.5	1800.7	4399.0	8743.1	8971.7	8599.2	7175.5
77.5°	491.3	521.0	678.7	850.1	877.5	1830.4	4910.9	5194.2	4401.3	3048.4
80°	306.2	345.1	511.9	505.0	418.2	671.8	2024.7	2168.6	1759.6	1048.9
82.5°	230.8	260.5	395.3	354.2	235.4	299.4	758.7	813.5	644.4	404.5
85°	157.7	198.8	285.6	219.4	123.4	144.0	301.6	324.5	294.8	196.5
87.5°	57.1	84.6	148.5	109.7	54.8	43.4	98.3	109.7	105.1	89.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3032.4	0°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
3059.9	2.5°	3103.3	3135.3	3151.3	3245.0	3283.8	3277.0	3286.1	3299.8	3313.5	3331.8
3098.7	5°	3128.4	3226.7	3279.2	3388.9	3462.1	3430.1	3471.2	3459.8	3443.8	3441.5
3169.6	7.5°	3210.7	3336.4	3494.1	3523.8	3555.8	3475.8	3407.2	3313.5	3290.7	3210.7
3229.0	10°	3356.9	3459.8	3651.7	3663.2	3521.5	3315.8	3162.7	2968.5	2966.2	2849.6
3320.4	12.5°	3496.3	3612.9	3768.3	3702.0	3363.8	3082.7	2833.6	2621.1	2532.0	2472.6
3375.2	15°	3583.2	3775.1	3857.4	3571.8	3087.3	2708.0	2385.7	2157.2	2065.8	2022.4
3443.8	17.5°	3663.2	3930.5	3894.0	3343.2	2746.8	2321.8	1937.8	1739.0	1713.9	1681.9
3553.5	20°	3772.8	3987.7	3763.7	3046.2	2360.6	1823.6	1579.1	1483.1	1505.9	1519.7
3564.9	22.5°	3875.7	4017.4	3599.2	2721.7	1864.7	1444.2	1323.1	1343.7	1378.0	1423.7
3592.3	25°	3921.4	4065.4	3377.5	2273.8	1419.1	1215.7	1188.3	1222.6	1279.7	1282.0
3631.2	27.5°	3951.1	4031.1	3110.1	1837.3	1122.0	1062.6	1103.7	1128.9	1135.7	1163.2
3713.4	30°	4003.7	3960.2	2771.9	1314.0	941.5	943.8	996.3	996.3	996.3	1016.9
3795.7	32.5°	4095.1	3912.2	2376.6	959.8	811.2	884.4	870.7	866.1	856.9	831.8
3900.8	35°	4152.2	3782.0	1876.1	710.7	729.0	811.2	806.7	735.8	617.0	557.6
4168.2	37.5°	4271.0	3715.7	1380.3	548.4	681.0	774.7	749.5	578.2	447.9	390.8
4499.5	40°	4527.0	3672.3	955.2	479.9	649.0	756.4	669.6	493.6	342.8	242.2
5011.4	42.5°	4840.0	3674.6	649.0	452.5	651.3	795.2	644.4	422.8	242.2	194.2
5694.7	45°	5260.5	3640.3	445.6	452.5	692.4	859.2	660.4	383.9	235.4	246.8
6551.6	47.5°	5713.0	3670.0	331.4	411.3	699.3	861.5	603.3	377.1	226.2	285.6
7484.0	50°	6240.9	3699.7	274.2	379.3	701.6	834.1	555.3	367.9	235.4	301.6
8553.5	52.5°	6784.7	3793.4	233.1	358.8	729.0	822.7	555.3	381.6	235.4	262.8
9915.4	55°	7596.0	4033.4	335.9	447.9	829.5	898.1	683.3	534.7	329.1	338.2
11220.3	57.5°	8491.8	4280.2	374.8	470.7	852.4	809.0	735.8	589.6	347.3	349.6
12234.9	60°	9081.3	4289.3	372.5	459.3	797.5	699.3	719.8	621.6	354.2	299.4
12863.3	62.5°	9316.7	4010.5	388.5	459.3	742.7	653.6	738.1	669.6	365.6	374.8
13041.6	65°	9049.4	3434.6	374.8	411.3	653.6	585.0	742.7	678.7	399.9	377.1
12721.7	67°	8631.2	2959.3	381.6	390.8	607.9	555.3	781.5	713.0	463.9	452.5
12554.8	67.5°	8512.3	2833.6	379.3	379.3	591.9	546.2	790.7	713.0	473.0	468.5
11080.9	70°	7502.3	2296.6	388.5	374.8	523.3	518.7	841.0	751.8	543.9	548.4
8139.8	72.5°	5710.7	1741.3	386.2	374.8	454.8	495.9	847.8	777.0	591.9	548.4
4559.0	75°	3245.0	1042.0	340.5	326.8	358.8	431.9	793.0	740.4	575.9	491.3
1821.3	77.5°	1341.4	537.0	313.1	294.8	297.1	351.9	660.4	690.1	548.4	418.2
607.9	80°	500.5	322.2	251.4	235.4	228.5	258.2	470.7	550.7	468.5	342.8
267.4	82.5°	260.5	201.1	171.4	171.4	155.4	164.5	253.7	365.6	354.2	235.4
107.4	85°	132.5	114.3	98.3	96.0	86.8	77.7	128.0	217.1	203.4	130.3
48.0	87.5°	70.8	64.0	41.1	38.8	32.0	20.6	22.9	43.4	70.8	57.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





180°  
3032.4  
3350.1  
3462.1  
3238.1  
2845.1  
2458.9  
2013.3  
1697.9  
1503.7  
1398.5  
1304.8  
1188.3  
1039.8  
818.1  
585.0  
388.5  
235.4  
189.7  
251.4  
317.6  
349.6  
269.7  
356.5  
338.2  
308.5  
379.3  
370.2  
445.6  
459.3  
507.3  
486.7  
438.8  
395.3  
313.1  
185.1  
107.4  
41.1  
0.0

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